An Inaugural Epay, Haemop tysis. by John G. Marshall Lebunon Bennoylvania Member of the Philadelphia Medical society. Submitted to the examination of the Trustees and Medical Infelsors University of Gennsylvania. the segree of Doctor of Medicine October 1818 paper. March b. 1019

CONTROL OF THE PROPERTY OF THE Jahrs. Hand & Mills

Treface.

In compliance with an indispusible duty resting upon me, as a candidate for the digree of boilory medicine. I submit with diffidence, the following pages, to the 4 amination of the deedleak faculty of the University of Linneylvania.

The subject I have selected for my dispertation is starmostyping a subject, which I would wish, though I cannot hope, to treat it in a manner corresponding

to its importance.

On endeavouring thus to discharge an indispensible duly, I feel conscious that I stand in need of indulgence. I have seen that I address men of liberal minds, who are fully aware that youth feel inexperience, is not likely, in the first effort, to produce any thing ather very expected or important. Whatever may be the morts of the following pages; I am competed to abtruct them; claiming that in cludgence which the Igro has a right to await from the more experienced veterans of science.

The Buthor

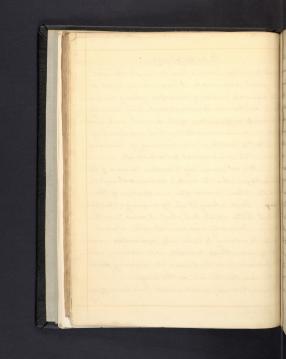
studie - a dubiest which I would will through of Thing within very marellent manufactions

Haemoptysis.

Most to epistagis, bleeding from the lungs is the most frequent hemorrhagether Inducts, when we reflect on the dige and member of bloodsopets subring the lungs, and on their minute ramifications, being electedity disposed on the surface of the air cells; and involved in a cellular subtance, that can admit of but little resistance, the frequency of humorrhage yrom that viseus cannot be wondered at.

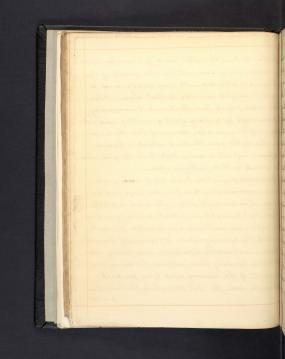
It is not always easy to ascortain the source of the humoshage, when the blood is discharged through the mouth. When, he cover ofter some affections of the lungs, blood is brought up by weighing, there can be but little cloubl, but what it comes from the lungs. Frequently eases are mot with, where it will be newpays to take into consideration, a variety of circumstance, to enable us to determine, whiten it proceeds, from the faceus, the anjoining excites of the nose, the stemach or the lungs.

It amost the stemach or the lungs.



by the blood in the latter being of a darken colour, grunous and mixed with hair antisty, and a some of weight with pain anxiety, and a some of weight when the stomach it is uniformery the blood proceeds from the stomach it is uniformery cliecharged by a strong effort of corniting, and not by coughing, as when proceeding from the lungs. In this latter case, the blood exhibit a floride colour; imposts a soline taste to the tongue, and is mixed with a frothy mucous.

Stamorhage from the laws are of much more race our or the langer, and sel-dom attended with fever. The blood is for the most part brought up without roughing, and by inspection, we remetimes have it in our process to detect the bleeding repets. Cuasionally however, there is considerable difficulty in a certaining, whether the bleeding proceeds from the facuses on account of the bleeding repet lying for back. In mach cases, the spot from which the humorhage proceeds



precede can not be brought into view; and the blood imitating the glotter, produces a weigh by which it is made to recomble a hamefripi. In a case of this kind, we must found our diagnosis on the nature of the occasional causes, and whom the absence or presence of the symptoms of hamafrigue; that is we must observe, whether local pain in the breast be present, whether the broad discharged be block and partly congredited, or whitten the shirted a forthy crimien of peranner.

In the citivlegy of homepitysis a particular negard must in the first place he had to the predispertion, while may ordered in the system to it. There are few other forms of also case, in which this processis position is more evidently noticed them in homepitysis. It consists, in an apospice irritability and somebility of the whole was under system; which is particularly conspicuous in the lungs and in the respiratory organs in general; combined with organic weakness of these parts. This condition of the system is most prequently entailed from

lumations of the definional engine much when I a willies for foresqueer of the superficient of secure I the breath be brount, what he the the it should his I want be trush in want was a sature or while I logistation bothy agencies a second in I for the solicition of hamilton is banking mound The on this peak people belong to the in exception and from exclusion this explain to the There are has otherof the system is much beginning the time? "

parents whom the offspring. It is sometimes however acquined after birth. In the first care the predisposition depends upon what has been salled physical conformation Malconformation of the thorax, consitutes one of the most conspicuous causes to homorrhage from the lungs. herrons predisposed in this way, are generally of a semquine temperament; of a happy gains; very imitable; possionate and active, though relden capable of much persiverence, in either Johysical on mental exertions. The hair and complexion is fair, the eyes mostly bene, the skin white and wit; the checks and lips are beautifully med; teeth often as white as milk; a fine and somewhat shrill voice; a projecting larget 8- 9.8:.

Contain to acte of the act as prediposing causes to harmophysis. Jay loss, Themakus, No causes, Chmit of act more subject to it (catteris parishes) than many of other employments. Among the other causes which predipose to this disease, may be redoned sudden growth about the age of publicity; in temperance

and the war of the same of the same of the same were your principles were the wings are married to a were it wind to microwing in after the the type in Took he was have in the training as it is a state of the -The same to be a son was a state of the same when to sales ofther set as birelisticing course the against a last of destroy section they have

in eating and drinking, plethera, suppression of some customary evacuations, repelled exceptions, tubercles of the lungs catarrh 4.4.

Halmostysis may arise at any period of life; all though it more frequently offices the young than the old. Its exciting causes, are; stimulating popious, eithernal violence, violent exertions of the lungs, as in singing, laughing, hallowing and blowing winds instruments. Indeen visipitude from heat to well, and evice versa, diministration of the weight of the atmosphere, especially when concurring with exercise; and great heat or propure from tethes.

Symptoms

Hacmophins is divided by Booton Cullen into active and profine. In the former the arterial system is in a state of increased, and in the latter, in a state of decreased withment. He allowated Richter has added a third, which he calls themphys Spannesin;

Continue continue of V

I am however of the opinion, that this division of Richten is not attended with any practical utility; at al wants, it does not seem to lead to eny new or more succeptule mode of treatment, than that which is deducible from the division given by bullen. The disease sometimes comes on with a sense of weight and anxiety in the breast; more or less pain in the breast, some uneasiness under the sternum, and frequently, a saltish taste is perceived in the mouth; a degree of irritation is feet about the upper part of the larget, which occasions howking and roughing, and blood of a florid red whour is brought up, procluding a noise similar to ein profong through a fluid. At other times its first stage is whered in with with this wings, who up of the extremeties, pains in the bulk and toins, costwery, flataling on lapitude. The bloods brought up at first, is generally in small quantities, and causes but very little unearimys. Ot other times however it appears moderally, and in large quantities, from the very first

commencement; not forceeded by the promorting symptom. The pulse in this state of the disease, is frequent, quick and tence; sometimes full and round, but made tinke.

The bleeding seldom takes place to such a degree, as to prove fother at once; but if the disease has continued for any lingth of time, or the discharge been professe; the pulse becomes small and frequent the difficulty of breathing continues to an alamming degree; the strength of the patient, becomes greatly diminished, the face pale, the officents will, symple tremore, convenions, and lastly death.

Hame prings from the lungs are dangerous in proportion to the causes which bring them on, the sign of the vehel reptured; the state of the constitution of the patient; and the means which are employed to check it.

When from acute in flammation of the lungs, if not in large quantities; it seldom proves betwee; but on the contrary of the terrimates few weaker: the lungs relieving themselves, of the violence of inflammation covered not overeded by the promenting up to and constance have and round, but profuse the pulse bearings more and pregnent difficulty of to eathing continues to an acaming segree, the strength of the patient, becomes greatly maked the face pole the of rem to with squake conversions, and lastly death. emorphis from the lungs are songwous in his tion to the cause which bring them on the says a vepel resptined ; The state of the constitution

in from scale in promotion of the lange of the constraints of the lange of the same than the section of the borner of the section of the sect

Who from metastases, as from suppression of humorhing or extramonics; it relations process dangerous un left, the humorhings is profuse and of some continuence. When from tubereles, it generally terminates into patricis pulminals.

Methods of Cure.

In the treatment of himorrose from the lungs, one must be guided by the state of the system. When therefore we are called to a patient; we should first an alaxan to accuration, whether the himorrologe he of the active on paper himed; on in other words whether the frateest lakeous under a sthemic, on artheristics. The remedies to be employed in this disease, may therefore he clivical under two heads; such as one proper in it critime; our such as are suitable in its paper in it critime; our such as are suitable in its paper state. If in a case of himorrhage from the lungs, we find the patients skin hot; if he is pureish, with a hand one of frequent probe; we must treat the disease as a oftenic case; and see bleeding from the arm, or even jugaleers

and be quicked by the state of the rightion where mesone we we calcade to a patient, we howerd in pleasement to exerting whether the himson has be I in action on propine limes; on in other mords w in patient takens under a struct on allen on the times, we find the potents of in hat. not treat the disease as a strink ever the

vein, promptly on a whowly. In the use of consection, we must have, as in all ather cases he governed by the state of the pulse, and repeat it as often as the system will been it, in till the symptoms are relived.

In addition to becausing, we must put our patient upon a general antiphlogistic regimen; he must be strictly fermicides to talk; to be kept in a quiet omes cool chamber; and if a court be present, unique retaining pectoral medicines must be apprehensed. Efter these remedies, or ever in conjunction with them; we may resort to the use of detringuits.

Common Sact.

he are ineletted to the late Doctor Much for the introduction of this remedy into regular practice. It may be given in closes of a tablesprompell, and repeated as often as is necessary. It seems to act on the fances, and often do its action to the bromship upiels. It is her given in a cory state.

a security for a sometime set the set of considering the the patent of the set of the se

Common sast

the installed to the take both Much for the transmission of the meaning into experience prosting to be a superior prosting to the major of a transmission of the second of the second of the second of the formal of the second of

Cold applications,

Doctor Darwin mentions, & Bre immersion in we water, or a modeler sprinkling all over with we water, would probably stop a pulmonay himsely! This is purhaps ventering too fear, with respect to the colds applications. Nevertheless it must be confixed that well of prications, in their proper time and place, are invaluable remedies in cheeking himorrhage. Elother dipped in wede water, and appoind to the thorax, axilla, and sirotum; is productive of very beneficial effects. It should however never super each venesation. Wilmot and Bursireus, recommend large changet of well water; the weldings of the water is to be gradually in creased) untile seen pieces of of ice are modlorsed. I believe however, that well of plications to the genitals 9: is the most effectual mode of enquiring the benefits of a low temperature.

Cold applications

in montions . One m elections to the gentless I is the most

Saccharum Saturni,

This is an article, that stands in high repute as a medicine, in checking hemorrhage. To the late bottom Barton, the moret is due, for the restoration of this mediine. His apparence was very extensive with it, and speaks in highly in fewour of this medicine. It mentions " In many cases of such bleeding, but especially in those from the Uterus, intestines and lungs, I have exhibited the acetate of lead, generally in combinatron with a pittance of opium, and sometimes with a portion of Youcacuanha. Seletom have I been disappointed in my expectations of benefit from the medicine, which of all the articles of the materia medica, seems to me to posso the greatest command over the movement of the artiral system. In no instance have I perceived any dangerow effects, en de rarely any temporary in convenience, from the employment of lead? The best made of giving the acelate of lead; is to combine it with openem, in the proportion of two grains of the

Sac chancem Laturn

the most is die for the retration of the me. His appriance new your extensive with it and water - highly in Junear of the medianie It is in has I In many cure of mich benjing, but when In those from the Utings intertures and livery I are ellited the certate of leads, sincrelly in combin from with a pitternel of spiern and cometimes with a portion of Specienanta. Selecom have been disappointed in my aboutations of burney from the medicine, which of one the ortices of the I storie medico, seems to me to hood the greates & amond over the movement of the antinial system no instance have I pinceived any danger to someto ranch my temporary in concerne I to the employment of lead? The best made of was the autot of lead in to combine it with Jum, in the proportion of two grains of Cl. former, with half a grain of the lather. This due may be exhibited, and repeated very one, two an three hours, occording to the wagney of the case, untile the bleeding is checked. The above done may however safely be inversed ; if the case domand it, without for during any deletorious effects. Proofepory Chapman tells us that has given it, to the extent of one couple at a close, without any back effects resulting from it.

Emelies

Culthough cases are on necord; where spontaneous romiting, has cured alemorrhage from the lung; yet practioness seldom employ them in the active state of the disease. Doctor Eullen whom the autionity of Bryen Rolinson exhibited Emetics in several cases of haemosphysis with abusentage. In one case it in created the homorrhage to such an alcoming clayers as to deter him from further trials of them show he mourhage, they may however be employed with a dwantage, and especially when it occurs

and the sould despetion of the letters to the sould be so

Emelies

honough cases her on second when you is not decided from a fire and second assumed say by it is it to easy to go a fire a fire and of the second of the seco

from tubereles. Elthough in chronic haemophysis emeters may of ten prove beneficial; (it can not he doubted that in acute bleeding from the lungs, thy must be generally doingerous; and aught therefore, unless the indication to their use be very strong, never to be employed. When the emetic remedies prove occasionally revocuable in acute homorhage; I believe it always defounds upon their nauseating effects. Doctor Mosely relates swaral cases, in which his ortholic robution administered, in nauseating doses every eight hours, produced the happiest effects. The advantages of this medicine, in the cases mintioned by boctor Mosely, were undoubtedly owing in part to its astringent virtues; its producing nausea, also contributed to the same beneficial end. Spelaluanha, combined with opium; projepon

Opelalelantia, combined with opium; projepor Chofoman in forms ess, is an invaluable somely; not only in this species of homorrhage; but also, in utime homorrhage. The medicine is to

switted that in south beeching from the lines

to be administral, so as to keep up constant names but not to induce vomiting, as it might proved mischausous. The booters prescription is as fallows, By Rulius Greamonhail or - & come 1, go.

Mf. either given in prowder or made into a pile, om ab repeated every two, three or four hours.

Digitalis

This article is by some writes, exammended as a valuable remedy in harmostysis. Bother Perriam has the highest opinion of this medicine in the cure of harmostysis. From its prover of diminishing antirise action, it may in some cases be productive of good effects. Richter speaks fururably of this medicine. He gave it means him ation with opinion and calenne; and says that he has often derived considerable advantage from digitalis given in this way. He observes that the more wident spasmoshi symptoms are present, the

I be become tree of a to lab in constant man in the not to an access requirement of an and marght property of the constant of

if either given in procless or made into a file.

Digitalis

where the most sign in his markers we will be a to be seen and the see

les advantageous is this medicine. His formala is 94 Gum Opium Calomel

Pulvis digitalis a a X grz

M. fl. dividenda in Nortulos no. X one of which is to be given every hour or two.

Blisters

Often beeseing, believes are important remarker; they have been officacious in this clis case, by disorting morbid of externant from the lungs, to a part less eperatual to life. Some recommends them to be appeared to the reck, or correct; but the most proper place, is perhaps, to apply them over the cheet; as the act in proportion to their presiminity to the part

Opium.

When, the bleeding is agravated, and kept up by to ughing; speum administred in made ems repeated dones, is an invaluable remedy; in

a code con logicus is there were the form

-x X = = instinct in.

1. It structurals in the toler no X one of hick is to be good every how on two

Busia

the statement produce as we want to the good by any and and a second of the good of the go

Opium.

A transport of the street of t

himovohage from the lungs. Richter, and the generality of the late modern german authors, recommende, the extract of Lyosciamus in preference to your. It is ordered by Hoffman, 3 grains every hour. Various other remedies are recommended, by different writers, in the ene of harmophysis; such as newtrow Bals, nitrate of parash & .. Mitrate of patach is per hops the most effectual. Soctor Coldwell mintrons notre given in large doses, in combinatron , with one sixth, or eight of a grain of tartariza entimony, is very beneficial in hacmostysis. It artman, recommends nitre in this disease, in the highest terms on His mode of thibiting it, is to make a saturated volution of notre in bramely. The dose is a tablespoon full every half hour. Sulphuric acid, in doses of twenty drops, of ten repeated; I have been informed, has in some

cases had a very happy effective haling homorehage from the lungs. The phosphoric acid has

active of hyprimum in sugarnee to Green. is nitrate of potent Dr. Witnote of portarle is now meteriages continuous is very condicion in the interior . It artiman necommendo metro reto disease in the highest terms His mode exhibiting it is to make a saturated solution is wery half hour.

whence acceding the says of land states of fine weather I have been imported to any verice us have a very happy affect whicher have my from the lange. The playment acceding also been highly secommonded (Huflands beunae page 153) in the cure of hosemostypis - The formula in the above quoted work is this

Of aciel phosphon 31 Agua font ditie. 336 Syr. ceramor: nigror 34

M.f. from 10 to 30 drops wary 15 minuto.

Ilar- from its effects in decreasing the action of the heart, om a arteries, from this popison in terrupting the How of beood from a vein in the operation of the bottomy; we might be led to suppose it to be beneficial in checking humorhough from the langt, but as we cannot regulate it in its offert. I consider it as an ambiguous romesty in the

Throughout the whole come of our treatment in this form of the disease; we ment injoin nest, and the shoulder somewhat elevated; conversation should be avoided, the bowels should be left

people to a more of completion the The formal to 30 page way to manuate State from it ship of increases me to a common or other property and and at the except of the last as the recovery general desired to I begreg exchange wheching warmenting from the every but as ever angier regular to me to all presignation of me and an impact money in the In made you of the sure see , we were and the shoulding remarked always . in a solvable state, without active purging and the patient should be lightly covered with lack clothes.

Dajove homorrhage from the lengs. Here the indication is to restore to the lend velpels. Among the first remedies to he mentions, is opinion. The close must be acomostated to the state of the system, and prepared. The second close should always be given before the first has lost its influence.

Borewian bark wile he found a valuable remedy in this form of the disease. Given ather abone, or combined with iron.

Borter is said to have und Laemuptises alone; it is highly entilled to our notice, as being a liquid which the stomach retains when all others are offeniou to it:

Sulphuric seid administered in macedora, and often repeated, either alone, or in combination

Could the melitation is to see a see to the people well . among the but remedie to be more lines committee on at he comodated to the the of the spoties and represents. The second the should always in grow inform the first I we test to in human lareed in the larger of the because drive allow and interior to have sime harming in the road the other one otherwise it. Talabaria acide administrati with some of the above mentioned articles; or in the form of Elipin of vitiol, seems to arrower well in the form of the disease.

Bort wine, when it does not know disagree able to the stomach, may be administered, and with a happy effect.

Sure remedies are to be aided, by moderate exercise; a light neurishing diet, the patient should eat often, and but little at a time that an equable excitement may be fift preserved in the stemach, and the system not super from alternate, and inantion of that viscus.

I will now subjoin a case of himomrage from the lungs, which came under my notice.

Cesse.

I have young man agest about nineteen, and of a petettorin constitution; on the trainty numb of I somey Will came to me and improved me that he had been subject to several beecking from

with some of the above merchanist so truce In the form of the district. weather to popping affection Lett register and to be a weet by made from my de but little at a time that an where we word he food preserved up the stone was the septement outper from aller paration of that visues. is will now subjoin a cover of homorrows were spring man segest school were for other constitutions on the his only refuse Bours was of words 2173 yours lines I is he was been subject to since as because

the lungs; and that he feet the same symptoms at that time, which preceded the previous bleedings from the lungs. after examin ation, I found his pulse active, his howels costive and he complained of some difficulty of breathing, a elight pain in his head 9: 9: I imediately drew from his arm fourteen owness of blood; and gave him a dose of Epsom valto. I saw him next day he informed me he felt much butter; his pulse was natural; I now gave him the dovers prowders in order to determine to the surface and equalize the circulation, directed him to abstain from all kinds of stimus lating food and drink, avoid all violent exartions of the lungs and to take moderate exercise. On the 24th I saw him engain he was now much better , his difficulty of breath ing and pain in the head had all subsided; his bowels were regular, and all ather symptoms had left him. I now requested him to

Callings, And that is fell the construct to The transfer which we would be the time were the second of the second of the and the same of the same of the same and the of the of the way to be the Committee of water from the Kind For T and the less from his com four ten ouvers of beach was fine to does of their east. Joans have and the still and administration of the they in model you within a finish ca and the doved free let in order to dillinounce whether what equality the write of the while their to also time from out limbs of strong the feed ont down overes all internet estates of the funcio and to take misser all mine But the 2 years him against were now freed letter , his difficulty of breat agent ham it the head that all subject pay struct attention to his manner of living, to avoid all Kinds of exceps, and occasionally to take a purge: which he continued to do for sometime; untill he considered himself out of all danger, and after wards neglected it. It e continued well untile towards the latter part of march, at which time he was attacked with a rough, which gradually increased in violence. On the 25 th of march in the night he was attacked with a violent op as modin cough, and straining of the lungs; this after some continuence longht on blueding from the lungs. I saw Line about four hours after the bleeding had made its first appearance; during which time he had lost nearly three pints of blood; emd the bleeding stile continued to an alarming degree, and threatened the speedy death of the patient. I found his pulse active, I imediately drew from his arm twelve ounces of blood; and gave him two grains of the

lasting the even attacked with a me we graphedly moresial in interes. by the I sty month in the wight he was attacked amount of the dains insurance of trustains is the The lange this after some continuous lowers a blueding home the large of some him but some have of the the bleed of had new That spheamones during which time he , out that menty there pint of the op , and once and threathers the opening out to constant. I found his probe a time I was well shows from his amor tracker and up bed and gave him try ground the

Sugar of lead, combined with half a grain of of opium. In Last an hour I repeated the medicine and took eight ounces more blood from his arm. I now applied rage dipped in cold water to his sistem and atilea. The bleeding now gradually diminished, and his pulse become slow. Two Louis after the last dose, I gave him another and repeated the cold applications; by this time the beerding had nearly ceased, and in one hour it stopped intirely. I now took off the weed applications, and applied a beister over his breast; I gener him smother dose of the lead one opium, and lift him a dose to be taken in bour hours. 27 the I saw him again, beaching had not returned, and his cough was romewhat relieved. I now gave him for his wough 30 drops of liquid tandanum, and directed him to take during that day two dores more of the landamum, and one dose of the acetate of lead and opium. 28th His cough

was applied may district in well under to be there and abilton the bloging now gradual manifeld in this pulse become close has been to the last don of gove him mothers in Sugar . To cold applications by this time to here is in and meaning ceased . and in one to me it sone interest of now with of the while also tions and applied a best to some that bear to all we him aniether dose of the colo and com I also him again, hereding had not with the standing and directed his much relieved, and feet in every respect better. He was only complained of usealines, he was now allowed some light recurring diet, and and climeted to take to chops of law canumitate as many of west spirit of notice hower times a clay - and other monetoles used prescribed to restore his strangth, which was aconticled in a short time. I now directed him to talke occasionally a cooling punge, which to talke occasionally a cooling punge, which he click, and never had a naturn of the himomrhage, but remained well ever since.

I have thus concluded a short epay on the causes and une of harmoptysis, as it was a matter of necessity, and not of choice the imperfections; I hope, will be viewed with on eye of liberal indusques. once but rum ain as well view min ex. causes and with of humospy on as it